

Application Number: 10/826,181

Art Units: 3635

Replacement Sheet

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**TITLE OF INVENTION:**  
**COMPOUND POST FRAME**

Compound Post Frame for the purpose of having a means to securely fasten elongated objects together to form a single post.

**CROSS-REFERENCE TO RELATED APPLICATIONS:**

This application is entitled to the benefits of the Disclosure Ser.#536671 filed Aug. 18, 2003. This application is entitled to the benefits of Provisional Patent Application Ser.#60/500301 filed Sept. 05 2003.

**STATEMENT REGARDING FEDERALLY SPONSORED RESEACH OR  
DEVELOPMENT: NOT APPLICABLE**

**SEQUENCE LISTING: NOT APPLICABLE**

**Reference: Listing**

Roark, Harold Dean	March 25, 2003	U.S. Pat. No. 6,536,745
Collins, Charles R.	April 10, 2003	U.S. Pat. No. 0,066,995A1
Auldridge, Douglas	Sept 3, 2002	U.S. Pat. No. 6,443,433B1
Chrisman, Lawrence C.	March 7, 1995	U.S. Pat. No. 5,395,093
Cooke, C.C.	July 24, 1906	U.S. Pat. No 826,996
Turner, B.R.	Jan 28, 1964	U.S. Pat. No. 3,119,471
Lechtenbohmer, Hans	Dec 14, 1999	U.S. Pat. No. 6,000,682
Berto, Joseph J.	July 1, 2003	U.S. Pat. No. 6,585,234



## REFERENCES

U.S. Pat. No 6,536,745 issued to Roark, Harold Dean on Mar 25, 2003 relates the fencing problems very well. It has a post and brace design that does brace in the line of the fence. This compound post 80 does not retain the weak points of a single T-post the way his patent does. The compound post has a united strength in all directions, it is more securely lock together for long term use and abuse.

U.S. Pat. No. 0,066,995A1 issued to Collins, Charles R. on April 10, 2003 is like all previous designs braced in the line of fences, weak to ninety degree pressure, complicated to build and assemble. The compound post 80 has the strength of multiple T-post 46C and with frame of choice can be assembled with readily available materials.

U.S. Pat No. 6,443,433B1 issued to Auldridge, Douglas on Sept 3, 2002 has a capable way of making a light duty rail fence that retains the weakness of the single T-post except in the direction the fence runs. The compound post 80 has lateral strength and can be assembled with any of several styles of frame.

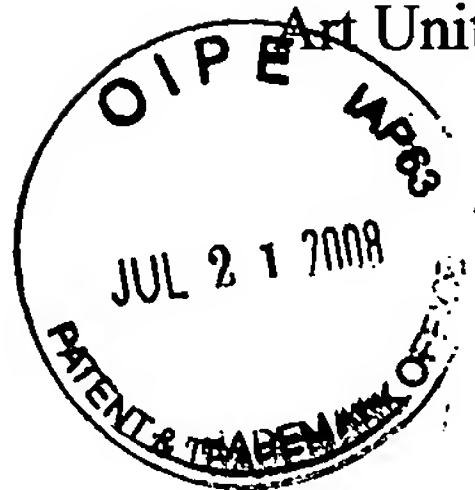
U.S. Pat No. 5,395,093 issued to Chrisman, Lawrence C. on March 7, 1995 has a patent for a T-post height extender but is limited to a single T-post and the weakness inherit. The compound frame presented can be made into an extender by adding more T-post 46C positions with unlimited horizontal length or height, limited by stability only.

U.S. Pat. No. 826,996 issued to Cooke, C.C. on July 24, 1906 has a telegraph pole design, but is more complicated, requires more parts and is more difficult to assemble than the presented compound frame.

U.S. Pat. No. 3,119,471 issued to Turner B.R. on Jan 28, 1964 has a tower design that has pre-welded post to braces. The presented compound frame can be assembled in the field making shipping of materials more compact.

U.S. Pat. No. 6,000,682 issued to Lechtenbohmer, Hans on Dec 14, 1999 has a patent with multiple rods for a compound fence post but appears to be designed for wood plank fence only and is extremely complicated and costly.

U.S. Pat. No. 6,585,234 issued to Berto, Joseph J. on July 1, 2003 has a device attaching too a T-post 46C. Berto's patent holds pvc 46C and wire.. The compound post frame 80, though different will do all that Berto's does. The compound post frame 80 will also have bracing capabilities and strength in all directions not provided with his. The compound post frame 80 will also be a height extender 44E if needed.



## DISCRIPTION

### 1. Field of the Invention

The present invention relates to construction of a frame with a device to join two or more post, pipe, rods or similar items 46C into a super strong durable post 80. The frame makes it easy to attach items and exposes individual post 46C for easy attachment of items to them. This assembled post 80 can be used in the place of any post of any material for enclosure fences, support post for buildings, power poles, light support, observation towers, barricades and antenna.

Compound post 80 will have many possible uses and variants to describe even the ones already mention would be extensive. Descriptions, design, use and installation describe here will be for enclosure, exclusion fences. Fence T-post 46C will represent all of the elongated items possible for use in horizontal or vertical positions.

The present invention relates to fence post construction 80, and more particularly to a T-post 46C fencing unit. Another aspect of the present invention is a lateral bracing arrangement or assemblage that may be used for a corner fence assembly utilizing at least 2 posts 80 fencing units described here in. The present invention further relates to a method for forming a braced fencing arrangement, a rail fence assembly, a 360 degree revolving option and a post extender method.

### 1. Background of Invention

Fencing patents have been numerous for over 100 years proving that a need for improving fencing is important. The T-post 46C and barbwire have become the predominate choice. The T-post 46C alone is lacking in lateral strength and stability for building a long life fence. The compound post 80 presented here has strength in all directions and is easily braced in all directions if so desired. The compound post 80 is very serviceable when made of readily available T-post 46C. I have personal experience of T-post 46C still in

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use after 50 years. Wooden post and even steel pipe rarely last this long and both may contain hazards material and are widely used as best choice.

## **BRIEF SUMMARY OF INVENTION**

The compound post 80 makes possible an all metal fence of uniform appearance. Said fence can be made that will have minimal damage. Compound post 80 are strong for force pull points and where fence line changes direction. The compound post 80 is strong in all directions, creating a more lean proof fence. Gates, barbwire and other items attach easily. Digging post holes is not required and firming time for stress post is eliminated. The material to build is readily available. Arsenic treated wooden post have been found to be dangerous. Wooden post often rot or burn. Pipe is expensive and difficult to attach too and used pipe often have contaminates. Rail fences with compound post 80 have a rail at each frame level made of T-post, Pvc Pipe, cement reinforcement rod or other items 46C. The compound post 80 with top post frame having additional post positions 44E can be extended and adjusted in height. The round frame 62 can form hunting or observation towers and other revolving items, such as lights. Compound post 80 can be fitted with one or several 360 degree gates for livestock work. The post frame 62 is a good design for use with antennas. Materials, size and shape of both frames and connected items 46C may be varied for level of stress of use. This invention has revealed a 3 pressure point clamping method with unparallel strength, it's a efficient post pattern that can be reversed on the same surface. It has a slot that holds objected firmly in a 3 point clamping device. The use of a frame as a clamping plate has presented a variable height post, a variable length brace or rail for fencing and structural framing and a 360 degree revolving attachment.



## BRIEF DISCRIPTION OF DRAWING

Fig 1A Threaded bolt 50A.

Fig 1C steel plate 50B with 2 bolt holes 30 horizontal and centered from top to bottom and same holes 30 centered ½ inch from both ends of sides.

Fig 1F rectangle 50E cut on 3 sides with rectangular protrusion 40 at open end and bent to a 90 degree at bend point 42 leaving unused opening 36 from each of two 8 inch square and 1/8 inch thick steel plates 48 use to connect the 2 plates into a frame.

Fig 1G is a threaded U-bolt 46A used as a securing device with nuts 46B.

Fig 1I is a strap of flexible steel. The strap 66B has a hole 30 for receiving a bolt 50A at one end and opposing slots 44 on opposite end.

Fig 1J is a steel fencing T-Post 46C.

Fig 2 is a view of an assembled frame 54 using 2 steel 8 inch square plate 48 with holes 30 and slots 44. Which are connected by using 4 steel plates 50B.

Fig 4 is a view of an assembled frame 58 using 2 steel 8 inch square plates 48 connected by bend 42 cut out 50E (leaving an unused hole 36) with holes 30 and slots 44.

Fig 6A is a view of channel bar steel with holes 30 and slots 44 to form completed frame 72.

Fig 6B is a view of 2 frames 72 welded in the shape of a T to form frame 74.

Fig 6C is a view of 3 frame 72 in the shape of an I to form frame 76.

Fig 6D is a view of 4 frames 72 in a rectangle to form frame 78 with extra slots 44 in post pattern 44E for extension pattern reference.

Fig 7A is a view of round frame 62 with holes, slots and a connector 50B with holes 30.

Fig 7B is a view of a steel band track 66A that encircles frame 62

Fig 7C is a curved rectangular bar 70 with holes 30 and bolt 50A.



Fig 7D is a side view of a yoke 68 and assembly of roller 68A and bolt 50A used on the track 66A.

Fig 9 is a completed view of a fence corner brace assembly 82, assembled with 3 post frame 54 assemblies 80 and 46C cross braces all held in place by clamp 46A with nuts 46B.